



**NXT**

**Star NXT Tool Grinder**

*The NXT generation of tool grinding has arrived*



NXT Tool Grinder

## A Common Platform

- Focused design to deliver a maximized grind zone with the most economical footprint
- Travels: X: 500mm [19.7"], Y: 650mm [25.6"], Z: 750mm [29.5"]
- Capable of 15" end work, 10" diameter parts, utilizing up to 8" wheels
- Machine centered wheel changing capability with up to (5) storage locations
- Auto-lube grease system for worry free maintenance
- High resolution linear glass scales
- Linear motors instead of ball screws to eliminate backlash, friction effects, and drive vibration
- 24 hour service response time
- Manufactured in the USA

## Flexible Options

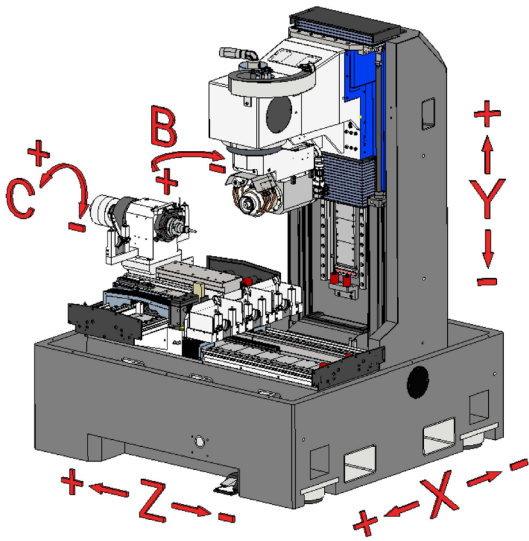
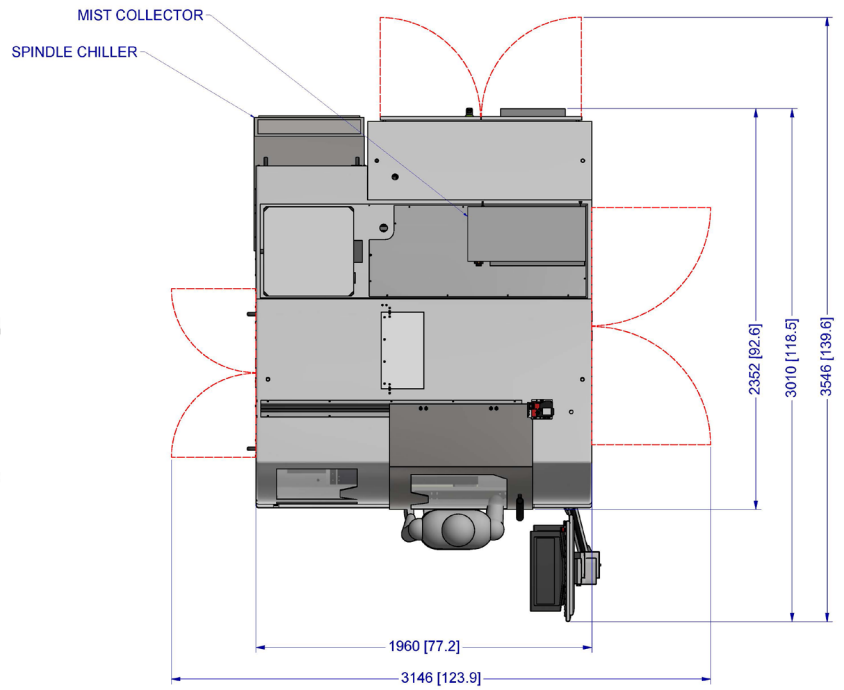
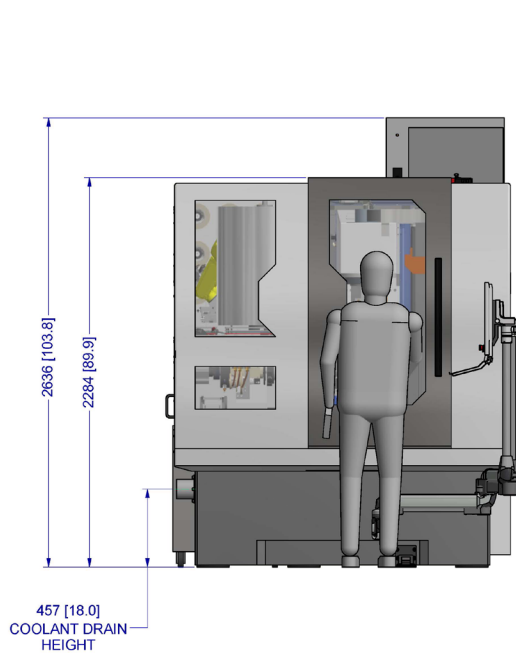
- Grinding Spindles
  - Asynchronous, Manual HSK50, 7.5KW
  - Synchronous, Auto HSK50, 15KW
  - Synchronous, Auto HSK50, 28KW
- Robot Automation
  - Capable of auto loading 5-32mm parts with one gripper assembly
  - Capacity for holding (4) pallets
- Extended tool rail: 24" length (standard 17.3")
- On machine truing and dressing motor
- CNC W-Axis for travel of tool support options along the Z-Axis
- Manual and automatic tailstock designs
- Hydraulic actuated steady rest support
- Extended capabilities to hold and regrind gundrills up to 48"

## The Best Grinding Software Worldwide: NUMROTOplus

- Full library of available software to tackle the most demanding cutting tool designs
- Free software version updates
- USA based application support team for training and trouble shooting

**numroto**®

# NXT Machine Specifications



NXT Tool and Cutter Grinder Kinematic Layout



NXT 28kW synchronous spindle option capable of speeds up to 20,000 RPM

	Metric	Inch
Base Machine Dimensions (L x W x H)	2300 x 2032 x 2284 mm	7' 6" x 6' 6" x 7' 5"
Total Weight: Base Machine	5,964 kg	13,150 lbs
Maximum Workpiece Diameter *	254 mm	10 inches
Maximum Grind Length, End Work	381mm	15 inches
Maximum Grind Length, Fluting	406 mm	16 in
C - Axis Headstock Spindle 360° Rotation	1,000 rpm	1,000 rpm
B - Axis Grinding Spindle Swivel +/- 120°	12 rpm	12 rpm
X - Axis Horizontal Travel	506 mm	19.9 inches
X - Axis Travel Speed	50 m/min	1968.5 inches/min
Y - Axis Vertical Travel	650 mm	25.6 inches
Y - Axis Travel Speed	50 m/min	1968.5 inches/min
Z - Axis Horizontal Travel	768 mm	30.2 inches
Z - Axis Travel Speed	50 m/min	1968.5 inches/min
Grinding Spindle Max. Speed	20,000 rpm	20,000 rpm
Peak Spindle Power	28 kw	38 hp
Grinding Wheel Diameter (Wheel Changing) **	203.2 mm	8 inches
Smallest Programmable Movement - Linear	0.001 mm	0.00039 inches
Linear Axis Glass Scale Feedback Resolution	0.00001 mm	0.0000004 inches
Smallest Programmable Movement - Rotary	0.0001 deg	0.0001 deg
Rotary Axis Feedback Resolution: C-axis	0.000068 deg	0.000068 deg
Rotary Axis Feedback Resolution: B-axis	0.00000006 deg	0.00000006 deg

\* Maximum Work Piece Diameter: **Up to 12" with smaller grind wheel selection**

\*\* Grinding Wheel Max. Diameter with no wheel changing, manifold & probing: **12"**



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